

SEQUENCE LISTING

<110> Viaxxel Biotech GmbH

<120> Compounds that affect CD83 expression, pharmaceutical compositions comprising said compounds and methods for identifying said compounds

<130> 84201

<140>

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<160> 27

<170> PatentIn Ver. 2.1

<210> 1

<211> 618

<212> DNA

<213> Homo sapiens

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| Met | Ser | Arg | Gly | Leu | Gln | Leu | Leu | Leu | Leu | Ser | Cys | Ala | Tyr | Ser | Leu | |
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| gct | ccc | gcg | acg | ccg | gag | gtg | aag | gtg | gct | tgc | tcc | gaa | gat | gtg | gac | 96 |
| Ala | Pro | Ala | Thr | Pro | Glu | Val | Lys | Val | Ala | Cys | Ser | Glu | Asp | Val | Asp | |
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| ttg | ccc | tgc | acc | gcc | ccc | tgg | gat | ccg | cag | gtt | ccc | tac | acg | gtc | tcc | 144 |
| Leu | Pro | Cys | Thr | Ala | Pro | Trp | Asp | Pro | Gln | Val | Pro | Tyr | Thr | Val | Ser | |

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| 35 | 40 | 45 | |
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| tgg gtc aag tta ttg gag ggt ggt gaa gag agg atg gag aca ccc cag | | | 192 |
| Trp Val Lys Leu Leu Glu Gly Gly Glu Glu Arg Met Glu Thr Pro Gln | | | |
| 50 | 55 | 60 | |
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| gaa gac cac ctc agg gga cag cac tat cat cag aag ggg caa aat ggt | | | 240 |
| Glu Asp His Leu Arg Gly Gln His Tyr His Gln Lys Gly Gln Asn Gly | | | |
| 65 | 70 | 75 | 80 |
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| tct ttc gac gcc ccc aat gaa agg ccc tat tcc ctg aag atc cga aac | | | 288 |
| Ser Phe Asp Ala Pro Asn Glu Arg Pro Tyr Ser Leu Lys Ile Arg Asn | | | |
| 85 | 90 | 95 | |
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| act acc agc tgc aac tcg ggg aca tac agg tgc act ctg cag gac ccg | | | 336 |
| Thr Thr Ser Cys Asn Ser Gly Thr Tyr Arg Cys Thr Leu Gln Asp Pro | | | |
| 100 | 105 | 110 | |
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| gat ggg cag aga aac cta agt ggc aag gtg atc ttg aga gtg aca gga | | | 384 |
| Asp Gly Gln Arg Asn Leu Ser Gly Lys Val Ile Leu Arg Val Thr Gly | | | |
| 115 | 120 | 125 | |
| | | | |
| tgc cct gca cag cgt aaa gaa gag act ttt aag aaa tac aga gcg gag | | | 432 |
| Cys Pro Ala Gln Arg Lys Glu Glu Thr Phe Lys Lys Tyr Arg Ala Glu | | | |
| 130 | 135 | 140 | |
| | | | |
| att gtc ctg ctg ctg gct ctg gtt att ttc tac tta aca ctc atc att | | | 480 |
| Ile Val Leu Leu Leu Ala Leu Val Ile Phe Tyr Leu Thr Leu Ile Ile | | | |
| 145 | 150 | 155 | 160 |
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| ttc act tgt aag ttt gca cgg cta cag agt atc ttc cca gat ttt tct | | | 528 |
| Phe Thr Cys Lys Phe Ala Arg Leu Gln Ser Ile Phe Pro Asp Phe Ser | | | |
| 165 | 170 | 175 | |
| | | | |
| aaa gct ggc atg gaa cga gct ttt ctc cca gtt acc tcc cca aat aag | | | 576 |
| Lys Ala Gly Met Glu Arg Ala Phe Leu Pro Val Thr Ser Pro Asn Lys | | | |
| 180 | 185 | 190 | |

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 195 200 205

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<213> Homo sapiens

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Leu Pro Cys Thr Ala Pro Trp Asp Pro Gln Val Pro Tyr Thr Val Ser
 35 40 45

Trp Val Lys Leu Leu Glu Gly Gly Glu Glu Arg Met Glu Thr Pro Gln
 50 55 60

Glu Asp His Leu Arg Gly Gln His Tyr His Gln Lys Gly Gln Asn Gly
 65 70 75 80

Ser Phe Asp Ala Pro Asn Glu Arg Pro Tyr Ser Leu Lys Ile Arg Asn
 85 90 95

Thr Thr Ser Cys Asn Ser Gly Thr Tyr Arg Cys Thr Leu Gln Asp Pro
 100 105 110

Asp Gly Gln Arg Asn Leu Ser Gly Lys Val Ile Leu Arg Val Thr Gly
 115 120 125

Cys Pro Ala Gln Arg Lys Glu Glu Thr Phe Lys Lys Tyr Arg Ala Glu

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130

135

140

Ile Val Leu Leu Leu Ala Leu Val Ile Phe Tyr Leu Thr Leu Ile Ile

145

150

155

160

Phe Thr Cys Lys Phe Ala Arg Leu Gln Ser Ile Phe Pro Asp Phe Ser

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170

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His Leu Gly Leu Val Thr Pro His Lys Thr Glu Leu Val

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gcc tgc agc ctg gca ccc gcg atg gcg atg cgg gag gtg acg gtg gct 97

Ala Cys Ser Leu Ala Pro Ala Met Ala Met Arg Glu Val Thr Val Ala

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tgc tcc gag acc gcc gac ttg cct tgc aca gcg ccc tgg gac ccg cag 145

Cys Ser Glu Thr Ala Asp Leu Pro Cys Thr Ala Pro Trp Asp Pro Gln

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agt gtg gag ctc ccg gag agc aag caa aac agc tcc ttc gag gcc ccc 241
 Ser Val Glu Leu Pro Glu Ser Lys Gln Asn Ser Ser Phe Glu Ala Pro
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agg aga agg gcc tat tcc ctg acg atc caa aac act acc atc tgc agc 289
 Arg Arg Arg Ala Tyr Ser Leu Thr Ile Gln Asn Thr Thr Ile Cys Ser
 80 85 90

tcg ggc acc tac agg tgt gcc ctg cag gag ctc gga ggg cag cgc aac 337
 Ser Gly Thr Tyr Arg Cys Ala Leu Gln Glu Leu Gly Gly Gln Arg Asn
 95 100 105

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aca gag tca act ttc agg aag tac agg gca gaa gct gtg ttg ctc ttc 433
 Thr Glu Ser Thr Phe Arg Lys Tyr Arg Ala Glu Ala Val Leu Leu Phe
 125 130 135 140

tct ctg gtt gtt ttc tac ctg aca ctc atc att ttc acc tgc aaa ttt 481
 Ser Leu Val Val Phe Tyr Leu Thr Leu Ile Ile Phe Thr Cys Lys Phe
 145 150 155

gca cga cta caa agc att ttc cca gat att tct aaa cct ggt acg gaa 529
 Ala Arg Leu Gln Ser Ile Phe Pro Asp Ile Ser Lys Pro Gly Thr Glu
 160 165 170

caa gct ttt ctt cca gtc acc tcc cca agc aaa cat ttg ggg cca gtg 577
 Gln Ala Phe Leu Pro Val Thr Ser Pro Ser Lys His Leu Gly Pro Val
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acc ctt cct aag aca gaa acg gta tgagtaggat ctccactggt ttttacaaag 631
 Thr Leu Pro Lys Thr Glu Thr Val

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Ala Asp Leu Pro Cys Thr Ala Pro Trp Asp Pro Gln Leu Ser Tyr Ala

35 40 45

Val Ser Trp Ala Lys Val Ser Glu Ser Gly Thr Glu Ser Val Glu Leu

50 55 60

Pro Glu Ser Lys Gln Asn Ser Ser Phe Glu Ala Pro Arg Arg Arg Ala

65 70 75 80

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Tyr Ser Leu Thr Ile Gln Asn Thr Thr Ile Cys Ser Ser Gly Thr Tyr
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Arg Cys Ala Leu Gln Glu Leu Gly Gly Gln Arg Asn Leu Ser Gly Thr
100 105 110

Val Val Leu Lys Val Thr Gly Cys Pro Lys Glu Ala Thr Glu Ser Thr
115 120 125

Phe Arg Lys Tyr Arg Ala Glu Ala Val Leu Leu Phe Ser Leu Val Val
130 135 140

Phe Tyr Leu Thr Leu Ile Ile Phe Thr Cys Lys Phe Ala Arg Leu Gln
145 150 155 160

Ser Ile Phe Pro Asp Ile Ser Lys Pro Gly Thr Glu Gln Ala Phe Leu
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Thr Glu Thr Val
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 1 5 10 15

atc ggg aga acg aat ttg atc gtc aac tac ctc cct cag aac atg acc 96
 Ile Gly Arg Thr Asn Leu Ile Val Asn Tyr Leu Pro Gln Asn Met Thr
 20 25 30

cag gat gag tta cga agc ctg ttc agc agc att ggt gaa gtt gaa tct 144
 Gln Asp Glu Leu Arg Ser Leu Phe Ser Ser Ile Gly Glu Val Glu Ser
 35 40 45

gca aaa ctt att cgg gat aaa gta gca gga cac agc ttg ggc tac ggc 192
 Ala Lys Leu Ile Arg Asp Lys Val Ala Gly His Ser Leu Gly Tyr Gly
 50 55 60

ttt gtg aac tac gtg acc gcg aag gat gca gag aga gcg atc aac acg 240
 Phe Val Asn Tyr Val Thr Ala Lys Asp Ala Glu Arg Ala Ile Asn Thr
 65 70 75 80

ctg aac ggc ttg agg ctc cag tca aaa acc att aag gtg tcg tat gct 288
 Leu Asn Gly Leu Arg Leu Gln Ser Lys Thr Ile Lys Val Ser Tyr Ala
 85 90 95

cgc ccg agc tca gag gtg atc aaa gac gcc aac ttg tac atc agc ggg 336
 Arg Pro Ser Ser Glu Val Ile Lys Asp Ala Asn Leu Tyr Ile Ser Gly
 100 105 110

ctc ccg cgg acc atg acc cag aag gac gta gaa gac atg ttc tct cgg 384
 Leu Pro Arg Thr Met Thr Gln Lys Asp Val Glu Asp Met Phe Ser Arg
 115 120 125

ttt ggg cgg atc atc aac tcg cgg gtc ctc gtg gat cag act aca ggt 432
 Phe Gly Arg Ile Ile Asn Ser Arg Val Leu Val Asp Gln Thr Thr Gly
 130 135 140

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 165 170 175

 gag ccc atc gca gtg aag ttt gca gcc aac ccc aac cag aac aaa aac 576
 Glu Pro Ile Ala Val Lys Phe Ala Ala Asn Pro Asn Gln Asn Lys Asn
 180 185 190

 gtg gca ctc ctc tcg cag ctg tac cac tcg cca gcg cga cgg ttc gga 624
 Val Ala Leu Leu Ser Gln Leu Tyr His Ser Pro Ala Arg Arg Phe Gly
 195 200 205

 ggc ccc gtt cac cac cag gcg cag aga ttc agg ttc tcc ccc atg ggc 672
 Gly Pro Val His His Gln Ala Gln Arg Phe Arg Phe Ser Pro Met Gly
 210 215 220

 gtc gat cac atg agc ggg ctc tct ggc gtc aac gtg cca gga aac gcc 720
 Val Asp His Met Ser Gly Leu Ser Gly Val Asn Val Pro Gly Asn Ala
 225 230 235 240

 tcc tcc ggc tgg tgc att ttc atc tac aac ctg ggg cag gat gcc gac 768
 Ser Ser Gly Trp Cys Ile Phe Ile Tyr Asn Leu Gly Gln Asp Ala Asp
 245 250 255

 gag ggg atc ctc tgg cag atg ttt ggg ccg ttt ggt gcc gtc acc aat 816
 Glu Gly Ile Leu Trp Gln Met Phe Gly Pro Phe Gly Ala Val Thr Asn
 260 265 270

 gtg aaa gtg atc cgc gac ttc aac acc aac aag tgc aaa ggg ttt ggc 864
 Val Lys Val Ile Arg Asp Phe Asn Thr Asn Lys Cys Lys Gly Phe Gly
 275 280 285

 ttt gtg acc atg aca aac tat gaa gaa gcc gcg atg gcc ata gcc agc 912
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ctg aac ggc tac cgc ctg ggg gac aaa atc tta cag gtt tcc ttc aaa 960
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 35 40 45

Ala Lys Leu Ile Arg Asp Lys Val Ala Gly His Ser Leu Gly Tyr Gly
 50 55 60

Phe Val Asn Tyr Val Thr Ala Lys Asp Ala Glu Arg Ala Ile Asn Thr
 65 70 75 80

Leu Asn Gly Leu Arg Leu Gln Ser Lys Thr Ile Lys Val Ser Tyr Ala
 85 90 95

Arg Pro Ser Ser Glu Val Ile Lys Asp Ala Asn Leu Tyr Ile Ser Gly
 100 105 110

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Leu Pro Arg Thr Met Thr Gln Lys Asp Val Glu Asp Met Phe Ser Arg
 115 120 125

Phe Gly Arg Ile Ile Asn Ser Arg Val Leu Val Asp Gln Thr Thr Gly
 130 135 140

Leu Ser Arg Gly Val Ala Phe Ile Arg Phe Asp Lys Arg Ser Glu Ala
 145 150 155 160

Glu Glu Ala Ile Thr Ser Phe Asn Gly His Lys Pro Pro Gly Ser Ser
 165 170 175

Glu Pro Ile Ala Val Lys Phe Ala Ala Asn Pro Asn Gln Asn Lys Asn
 180 185 190

Val Ala Leu Leu Ser Gln Leu Tyr His Ser Pro Ala Arg Arg Phe Gly
 195 200 205

Gly Pro Val His His Gln Ala Gln Arg Phe Arg Phe Ser Pro Met Gly
 210 215 220

Val Asp His Met Ser Gly Leu Ser Gly Val Asn Val Pro Gly Asn Ala
 225 230 235 240

Ser Ser Gly Trp Cys Ile Phe Ile Tyr Asn Leu Gly Gln Asp Ala Asp
 245 250 255

Glu Gly Ile Leu Trp Gln Met Phe Gly Pro Phe Gly Ala Val Thr Asn
 260 265 270

Val Lys Val Ile Arg Asp Phe Asn Thr Asn Lys Cys Lys Gly Phe Gly
 275 280 285

Phe Val Thr Met Thr Asn Tyr Glu Glu Ala Ala Met Ala Ile Ala Ser
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Thr Asn Lys Ser His Lys
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Gly Pro Thr Thr Ile Asn Asn Asn Cys Ser Ser Pro Val Asp Ser Gly

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aac aca gaa gac agc aag acc aac tta ata gtc aac tac ctt cct cag 144

Asn Thr Glu Asp Ser Lys Thr Asn Leu Ile Val Asn Tyr Leu Pro Gln

35 40 45

aac atg aca cag gag gaa cta aag agt ctc ttt ggg agc att ggt gaa 192

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50 55 60

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Ile Glu Ser Cys Lys Leu Val Arg Asp Lys Ile Thr Gly Gln Ser Leu

65 70 75 80

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Gly Tyr Gly Phe Val Asn Tyr Ile Asp Pro Lys Asp Ala Glu Lys Ala

85 90 95

atc aac acc ctg aat gga ttg aga ctt caa acc aaa aca ata aaa gtt 336

Ile Asn Thr Leu Asn Gly Leu Arg Leu Gln Thr Lys Thr Ile Lys Val

100 105 110

tcc tat gct cgc cca agt tca gct tct atc aga gat gca aat tta tat 384

Ser Tyr Ala Arg Pro Ser Ser Ala Ser Ile Arg Asp Ala Asn Leu Tyr

115 120 125

10025367 121901

gtc agc gga ctt cca aaa aca atg acc cag aag gag ttg gaa cag ctt 432
 Val Ser Gly Leu Pro Lys Thr Met Thr Gln Lys Glu Leu Glu Gln Leu
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 Phe Ser Gln Tyr Gly Arg Ile Ile Thr Ser Arg Ile Leu Val Asp Gln
 145 150 155 160

gtc act ggc ata tca agg ggt gta ggg ttt att cga ttt gac aag cga 528
 Val Thr Gly Ile Ser Arg Gly Val Gly Phe Ile Arg Phe Asp Lys Arg
 165 170 175

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 180 185 190

ggc gcc acg gag cca atc act gta aag ttt gct aat aac cca agc caa 624
 Gly Ala Thr Glu Pro Ile Thr Val Lys Phe Ala Asn Asn Pro Ser Gln
 195 200 205

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 Arg Tyr Pro Gly Pro Leu Ala Gln Gln Ala Gln Arg Phe Arg Leu Asp
 225 230 235 240

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 Asn Leu Leu Asn Met Ala Tyr Gly Val Lys Arg Phe Ser Pro Met Thr
 245 250 255

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 Ile Asp Gly Met Thr Ser Leu Ala Gly Ile Asn Ile Pro Gly His Pro
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275 280 285

290 295 300

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<213> Homo sapiens

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Asn Thr Glu Asp Ser Lys Thr Asn Leu Ile Val Asn Tyr Leu Pro Gln
 35 40 45

Asn Met Thr Gln Glu Glu Leu Lys Ser Leu Phe Gly Ser Ile Gly Glu
 50 55 60

Ile Glu Ser Cys Lys Leu Val Arg Asp Lys Ile Thr Gly Gln Ser Leu
 65 70 75 80

Gly Tyr Gly Phe Val Asn Tyr Ile Asp Pro Lys Asp Ala Glu Lys Ala
 85 90 95

Ile Asn Thr Leu Asn Gly Leu Arg Leu Gln Thr Lys Thr Ile Lys Val
 100 105 110

Ser Tyr Ala Arg Pro Ser Ser Ala Ser Ile Arg Asp Ala Asn Leu Tyr
 115 120 125

Val Ser Gly Leu Pro Lys Thr Met Thr Gln Lys Glu Leu Glu Gln Leu
 130 135 140

Phe Ser Gln Tyr Gly Arg Ile Ile Thr Ser Arg Ile Leu Val Asp Gln
 145 150 155 160

Val Thr Gly Ile Ser Arg Gly Val Gly Phe Ile Arg Phe Asp Lys Arg
 165 170 175

Ile Glu Ala Glu Glu Ala Ile Lys Gly Leu Asn Gly Gln Lys Pro Pro
 180 185 190

Gly Ala Thr Glu Pro Ile Thr Val Lys Phe Ala Asn Asn Pro Ser Gln
 195 200 205

Lys Thr Asn Gln Ala Ile Leu Ser Gln Leu Tyr Gln Ser Pro Asn Arg
 210 215 220

Arg Tyr Pro Gly Pro Leu Ala Gln Gln Ala Gln Arg Phe Arg Leu Asp

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225 230 235 240
 Asn Leu Leu Asn Met Ala Tyr Gly Val Lys Arg Phe Ser Pro Met Thr
 245 250 255
 Ile Asp Gly Met Thr Ser Leu Ala Gly Ile Asn Ile Pro Gly His Pro
 260 265 270
 Gly Thr Gly Trp Cys Ile Phe Val Tyr Asn Leu Ala Pro Asp Ala Asp
 275 280 285
 Glu Ser Ile Leu Trp Gln Met Phe Gly Pro Phe Gly Ala Val Thr Asn
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 Val Lys Val Ile Arg Asp Phe Asn Thr Asn Lys Cys Lys Gly Phe Gly
 305 310 315 320
 Phe Val Thr Met Thr Asn Tyr Asp Glu Ala Ala Met Ala Ile Arg Ser
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 Asn Met Thr Gln Asp Glu Phe Lys Ser Leu Phe Gly Ser Ile Gly Asp

50 55 60

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 Ile Glu Ser Cys Lys Leu Val Arg Asp Lys Ile Thr Gly Arg Asp Leu

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ggc tac ggg ttt gtg aac tat cct gac ccc aat gat gca gac aaa gcc 288
 Gly Tyr Gly Phe Val Asn Tyr Pro Asp Pro Asn Asp Ala Asp Lys Ala

85 90 95

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 Ile Asn Thr Leu Asn Gly Leu Lys Leu Gln Thr Lys Thr Ile Lys Val

100 105 110

tcc tat gcc aga ccc agt tca gca tcc atc cgg gat gct aac ctg tac 384
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 Val Ser Gly Leu Pro Lys Thr Met Ser Gln Lys Glu Met Glu Gln Leu

130 135 140

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gtc aca ggt gtc tct cgg ggt gtg gga ttc atc cgc ttt gac aag agg 528
 Val Thr Gly Val Ser Arg Gly Val Gly Phe Ile Arg Phe Asp Lys Arg
 165 170 175

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 Gly Ala Ala Glu Pro Ile Thr Val Lys Phe Ala Asn Asn Pro Ser Gln
 195 200 205

aag acg ggg cag gcg ctg ctc acc cac ctc tac cag tca tcc gcc cgg 672
 Lys Thr Gly Gln Ala Leu Leu Thr His Leu Tyr Gln Ser Ser Ala Arg
 210 215 220

cgc tac gca ggc ccc cta cac cat cag acc cag cgt ttc cgg ctg gac 720
 Arg Tyr Ala Gly Pro Leu His His Gln Thr Gln Arg Phe Arg Leu Asp
 225 230 235 240

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 Ile Asp Gly Met Ser Gly Leu Ala Gly Val Gly Leu Ser Gly Gly Ala
 260 265 270

gcg ggc ggc tgg tgc atc ttc gtg tac aac ctg tca ccg gag gca gac 864
 Ala Gly Gly Trp Cys Ile Phe Val Tyr Asn Leu Ser Pro Glu Ala Asp
 275 280 285

gag agc gtg ctg tgg cag ctg ttc ggg cct ttt ggg gca gtc acc aac 912

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Glu Ser Val Leu Trp Gln Leu Phe Gly Pro Phe Gly Ala Val Thr Asn
 290 295 300

gtc aag gtc atc .cgt gat ttc acc acc aac aag tgc aag ggt ttc ggc 960
 Val Lys Val Ile Arg Asp Phe Thr Thr Asn Lys Cys Lys Gly Phe Gly
 305 310 315 320

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 325 330 335

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 35 40 45

Asn Met Thr Gln Asp Glu Phe Lys Ser Leu Phe Gly Ser Ile Gly Asp
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Ile Glu Ser Cys Lys Leu Val Arg Asp Lys Ile Thr Gly Arg Asp Leu
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 Gly Tyr Gly Phe Val Asn Tyr Pro Asp Pro Asn Asp Ala Asp Lys Ala
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 Ile Asn Thr Leu Asn Gly Leu Lys Leu Gln Thr Lys Thr Ile Lys Val
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 Ser Tyr Ala Arg Pro Ser Ser Ala Ser Ile Arg Asp Ala Asn Leu Tyr
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 Val Ser Gly Leu Pro Lys Thr Met Ser Gln Lys Glu Met Glu Gln Leu
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 Phe Ser Gln Tyr Gly Arg Ile Ile Thr Ser Arg Ile Leu Val Asp Gln
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 Val Thr Gly Val Ser Arg Gly Val Gly Phe Ile Arg Phe Asp Lys Arg
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 Gly Ala Ala Glu Pro Ile Thr Val Lys Phe Ala Asn Asn Pro Ser Gln
 195 200 205
 Lys Thr Gly Gln Ala Leu Leu Thr His Leu Tyr Gln Ser Ser Ala Arg
 210 215 220
 Arg Tyr Ala Gly Pro Leu His His Gln Thr Gln Arg Phe Arg Leu Asp
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tct ccc atg caa aca ggg gca acc aca gat gac agc aaa acc aac ctc 144
 Ser Pro Met Gln Thr Gly Ala Thr Thr Asp Asp Ser Lys Thr Asn Leu
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atc gtc aac tat tta ccc cag aat atg acc caa gaa gaa ttc agg agt 192
 Ile Val Asn Tyr Leu Pro Gln Asn Met Thr Gln Glu Glu Phe Arg Ser
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ctc ttc ggg agc att ggt gaa ata gaa tcc tgc aaa ctt gtg aga gac 240
 Leu Phe Gly Ser Ile Gly Glu Ile Glu Ser Cys Lys Leu Val Arg Asp
 65 70 75 80

aaa att aca gga cag agt tta ggg tat gga ttt gtt aac tat att gat 288
 Lys Ile Thr Gly Gln Ser Leu Gly Tyr Gly Phe Val Asn Tyr Ile Asp
 85 90 95

cca aag gat gca gag aaa gcc atc aac act tta aat gga ctc aga ctc 336
 Pro Lys Asp Ala Glu Lys Ala Ile Asn Thr Leu Asn Gly Leu Arg Leu
 100 105 110

cag acc aaa acc ata aag gtc tca tat gcc cgt ccg agc tct gcc tca 384
 Gln Thr Lys Thr Ile Lys Val Ser Tyr Ala Arg Pro Ser Ser Ala Ser
 115 120 125

atc agg gat gct aac ctc tat gtt agc ggc ctt ccc aaa acc atg acc 432
 Ile Arg Asp Ala Asn Leu Tyr Val Ser Gly Leu Pro Lys Thr Met Thr
 130 135 140

cag aag gaa ctg gag caa ctt ttc tcg caa tac ggc cgt atc atc acc 480
 Gln Lys Glu Leu Glu Gln Leu Phe Ser Gln Tyr Gly Arg Ile Ile Thr
 145 150 155 160

tca cga atc ctg gtt gat caa gtc aca gga gtg tcc aga ggg gtg gga 528

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Ser Arg Ile Leu Val Asp Gln Val Thr Gly Val Ser Arg Gly Val Gly
 165 170 175

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 Phe Ile Arg Phe Asp Lys Arg Ile Glu Ala Glu Glu Ala Ile Lys Gly
 180 185 190

ctg aat ggc cag aag ccc agc ggt gct acg gaa ccg att act gtg aag 624
 Leu Asn Gly Gln Lys Pro Ser Gly Ala Thr Glu Pro Ile Thr Val Lys
 195 200 205

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 Phe Ala Asn Asn Pro Ser Gln Lys Ser Ser Gln Ala Leu Leu Ser Gln
 210 215 220

ctc tac cag tcc cct aac cgg cgc tac cca ggt cca ctt cac cac cag 720
 Leu Tyr Gln Ser Pro Asn Arg Arg Tyr Pro Gly Pro Leu His His Gln
 225 230 235 240

gct cag agg ttc agg ctg gac aat ttg ctt aat atg gcc tat ggc gta 768
 Ala Gln Arg Phe Arg Leu Asp Asn Leu Leu Asn Met Ala Tyr Gly Val
 245 250 255

aag aga ctg atg tct gga cca gtc ccc cct tct gct tgt tcc ccc agg 816
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 260 265 270

ttc tcc cca att acc att gat gga atg aca agc ctt gtg gga atg aac 864
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Ile Val Asn Tyr Leu Pro Gln Asn Met Thr Gln Glu Glu Phe Arg Ser
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Leu Phe Gly Ser Ile Gly Glu Ile Glu Ser Cys Lys Leu Val Arg Asp
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Lys Ile Thr Gly Gln Ser Leu Gly Tyr Gly Phe Val Asn Tyr Ile Asp
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Pro Lys Asp Ala Glu Lys Ala Ile Asn Thr Leu Asn Gly Leu Arg Leu
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Ser Arg Ile Leu Val Asp Gln Val Thr Gly Val Ser Arg Gly Val Gly
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Phe Ile Arg Phe Asp Lys Arg Ile Glu Ala Glu Glu Ala Ile Lys Gly
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Leu Asn Gly Gln Lys Pro Ser Gly Ala Thr Glu Pro Ile Thr Val Lys
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Phe Ala Asn Asn Pro Ser Gln Lys Ser Ser Gln Ala Leu Leu Ser Gln
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Leu Tyr Gln Ser Pro Asn Arg Arg Tyr Pro Gly Pro Leu His His Gln
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Ala Gln Arg Phe Arg Leu Asp Asn Leu Leu Asn Met Ala Tyr Gly Val
245 250 255

Lys Arg Leu Met Ser Gly Pro Val Pro Pro Ser Ala Cys Ser Pro Arg

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Phe Ser Pro Ile Thr Ile Asp Gly Met Thr Ser Leu Val Gly Met Asn

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Ile Pro Gly His Thr Gly Thr Gly Trp Cys Ile Phe Val Tyr Asn Leu

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Ser Pro Asp Ser Asp Glu Ser Val Leu Trp Gln Leu Phe Gly Pro Phe

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320

Gly Ala Val Asn Asn Val Lys Val Ile Arg Asp Phe Asn Thr Asn Lys

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Cys Lys Gly Phe Gly Phe Val Thr Met Thr Asn Tyr Asp Glu Ala Ala

340

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350

Met Ala Ile Ala Ser Leu Asn Gly Tyr Arg Leu Gly Asp Arg Val Leu

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Gln Val Ser Phe Lys Thr Asn Lys Ala His Lys Ser

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